

FOGARTY INTERNATIONAL TRAUMA
PROGRAM ABSTRACTS as of 2006

Grant: 1D43TW007564-01
Program Director: PRIMACK, ARON
Principal Investigator: AMICK, BENJAMIN C PHD
Title: International research training program in trauma and injury prevention
Institution: UNIVERSITY OF TEXAS HLTH SCI CTR HOUSTON, TX
HOUSTON
Project Period: 2006/04/01-2011/02/28

DESCRIPTION (provided by applicant): This is a 5-year competing application for a new research training program in trauma and injury prevention, focused on occupational injuries, traffic-related accidents and the social inequalities in the injury and accident distribution in Colombia. The Pontificia Universidad Javeriana (PUJ) is the collaborating institution and Leonardo Quintana, Ph.D., Associate Professor of Industrial Engineering and Director of the Center for Studies in Ergonomics, the Principal Foreign Collaborator. The program will be located in the Southwest Center for Occupational and Environmental Health (SWCOEH) at the University of Texas School of Public Health (UTSPH) in Houston, Texas, and includes collaborations with the American Automobile Association and the Texas Department of State Health Services. The SWCOEH has a 10-year history of training and research collaboration with PUJ. The program goals are to train foreign scientists and professionals in trauma and injury surveillance, prevention, control, and evaluation through an academic training and research program to: 1) deal effectively with the adverse health effects of trauma and injury in the workplace and the community; 2) describe how social, cultural and economic factors influence the distribution of trauma and injury, and intervention program design; 3) develop an international network of trained professionals in trauma and injury prevention to collaborate in research programs aimed at the identification and prevention of occupational and traffic-related injuries, and 4) develop national and international prevention programs for occupational and traffic-related injuries in Colombia. To achieve these goals, we propose to provide training and research support through three program activities: 1) long-term academic and research preparation in the United States at the UTSPH leading to a masters or doctoral degree in public health or postdoctoral fellowships specifically focused on injury prevention and control; 2) short-term training activities including a visiting scholars program, a competitive pilot projects research training program, and targeted short courses and workshops in Colombia; and 3) information dissemination, through support of the widespread dissemination of scientific information on occupational and traffic-related injury prevention to Spanish- speaking countries. The parent grant is 1T42OH008421-01, a CDC/NIOSH Education and Research Center training grant currently funded through 2010.

Grant: 1D43TW007560-01
Program Director: PRIMACK, ARON
Principal Investigator: BILLIAR, TIMOTHY R
Title: Trauma and Injury Excellence in Education on Research (TralnEER) Program
Institution: UNIVERSITY OF PITTSBURGH AT PITTSBURGH PITTSBURGH, PA
Project Period: 2006/04/01-2011/02/28

DESCRIPTION (provided by applicant): Traumatic injury is the number one health problem in Colombia a country with a population of greater than 40 million that has been called the most violent country in the world. The TralnEER project will establish an international collaboration between the University Pittsburgh and the Universidad del Valle in Cali Colombia with the goal of building the capacity of investigators to conduct human trauma and injury research relevant to the health needs of Colombia. We have established a partnership with the CISALVA institute, which is the official injury and violence control research center of the Universidad del Valle and we have designated it as the regional resource for advance in-country training and support center for the TralnEER program. The parent grant for this proposal is the NIH-funded T32 Trauma Center training grant that in combination with the NIH-funded K30 Clinical Research Training Program of the University of Pittsburgh will draw expertise to build a fully integrated program to educate a cadre of investigators in advance research methods in trauma. The long term vision of TralnEER is to create the infrastructure for advanced training in trauma research across all Latin American countries. The specific aims are: 1) Provide formal training to at least 8 individuals in a form of a degree in Masters of Science in Clinical Research over the course of the 5 year project. Alternative training will also be offered in a shorter term option in which the candidate will complete requirements for a Certificate in Clinical Research. 2). To further develop and strengthen the CISALVA Institute as a center of excellence in injury control research, 3) To facilitate the transition of trainees to positions of responsibility and influence in the region, and 4) To develop infrastructure to expand the opportunities to train and support injury research in other countries in Latin America. The above aims will be accomplished by means of creating the following additional training activities: 1. Advanced in country training which will be supported by startup grants to help trainees launch or continue their projects with ongoing mentorship upon return to Colombia and 2. The implementation of short term intensive training that will consist of an advanced workshops /seminar to provide in depth, targeted injury research training and an annual research symposium both will take place in Colombia. During the fifth year of TralnEER, the trainees will work on creating the regional support structure for a web based Pittsburgh International Trauma Training program (WebPITT) in order to accomplish specific aim 4.

Grant: 1D43TW007569-01

Program Director: PRIMACK, ARON

Principal Investigator: BLOW, FREDERIC C PHD ALCOHOLISM AND
ALCOHOL ABUSE

Title: International Collaborative Alcohol & Injury Research Training Program in Poland

Institution: UNIVERSITY OF MICHIGAN AT ANN ARBOR ANN ARBOR, MI

Project Period: 2006/04/01-2011/02/28

DESCRIPTION (provided by applicant): Reducing death and disability caused by alcohol-related intentional and non-intentional injuries is a major world-wide health goal for the World Health Organization. Alcohol use has been linked with a substantial proportion of injuries and deaths from motor vehicle crashes, falls, and fires. In Poland and other Eastern European countries that have been experiencing rapid social and cultural changes, problems related to extremely high per capita alcohol consumption and the rising rate of alcohol-related injury have become critically important national concerns. Injury and trauma constitute the third leading cause of death in Poland, with a preponderance of alcohol-related mortality. Developing an infrastructure to expand the capacity for injury and alcohol research and prevention in Poland will address an escalating public health problem that has the potential for devastating health and economic consequences to this region over the next decades. To accomplish this goal, a multi-tiered research training program will be established through collaboration among researchers at the University of Michigan (UM) and Wroclaw Medical University (WMU) and several other academic medical settings in Poland. This builds on a successful training and research collaboration between UM and Polish scientists at the Institute of Neurology and Psychiatry, and the Medical College of Warsaw focused on substance use disorders. This new specific injury and alcohol collaboration brings together expertise in alcohol-related injury prevention, EMS/Trauma services, psychiatry, public health, and transportation research at UM with a developing expertise in injury and trauma medicine and public health at WMU in order to increase training and research capacity in Poland. A consortium at Wroclaw Medical University and academic medical and public health locations throughout Poland will be fostered through this collaborative effort. The program will train visiting Polish scientists at the UM in alcohol and injury research methodology, and develop mentored programs of research that address current issues in alcohol and injury prevention, treatment, and evaluation in Poland. The Polish research infrastructure for addressing substance abuse-related injuries will be improved by the provision of an essential core of clinician scientists capable of conducting independent research projects and developing new programming to address this critical issue in emergency medicine and public health. **Public Health Relevance:** The high levels of per capita alcohol consumption and alcohol-related injuries, combined with a limited research infrastructure to address these issues, present significant public health challenges to Poland and other former Soviet-bloc countries. This proposed training program will develop the capacity for high quality injury and trauma research in Poland that can serve as the core of a region-wide consortium to address a growing, critical health care burden in these developing countries.

Grant:	5D43TW007273-02		
Program Director:	PRIMACK, ARON		
Principal Investigator:	CAINE, ERIC D	MD	PSYCHIATRY:PSYCHIATRY-UNSPEC
Title:	China Collaborative Suicide Research Training Program		
Institution:	UNIVERSITY OF ROCHESTER	ROCHESTER, NY	
Project Period:	2005/05/04-2010/02/28		

The application brings together the University of Rochester's Center for the Study and Prevention of Suicide (CSPS) with colleagues from the National Mental Health Unit of China CDC, based at the Institute of Mental Health of Peking University, and the Beijing Suicide Research and Prevention Centre, based at the Beijing Hui Long Guan Hospital, to form the China Collaborative Suicide Research Training Program (CCSRT). Other collaborating institutions include the Hong Kong Jockey Club Suicide Research Centre of The University of Hong Kong (HKU). and the Department of Psychiatry of The Chinese University of Hong Kong (CUHK). Suicide is a major public health problem in China. It is the fifth leading cause of death overall, and the leading cause of death for individuals in the 15-34 year old age range. It has a national rate of approximately 23 deaths per 100,000; during 1995-1999, approximately 287,000 died by suicide. China, in contrast to the U.S., experiences much higher rates of suicide among women, and rates in rural regions and among elders that far exceed those in the U.S. and other countries. The reasons for such striking epidemiological contrasts are insufficiently studied. Based upon the urgency for better understanding the factors that contribute to suicide in China, and our substantial experience derived from our ICOHRTA with HKU and CUHK since 2001, we propose four aims: To develop the infrastructure of the CCSRT focusing on public health and population -oriented research and prevention efforts; to recruit and train talented individuals to participate in interdisciplinary research; to develop and conduct research pertaining to suicide and attempted suicide in China, including research related to suicide prevention efforts; and to systematically evaluate the effectiveness of our recruiting, training, and research efforts throughout the course of the grant period.

Grant: 1D43TW007566-01
Program Director: PRIMACK, ARON
Principal Investigator: CARNEY, NANCY A PHD
Title: Neurotrauma Research Training in Latin America
Institution: OREGON HEALTH & SCIENCE UNIVERSITY PORTLAND, OR
Project Period: 2006/04/01-2011/02/28

DESCRIPTION (provided by applicant): The Neurotrauma Research Group (NTRG) is a collaboration of investigators and programs from Oregon Health & Science University (OHSU - Portland, Oregon), University of Washington (Seattle, Washington), and University of Rosario (Rosario, Argentina). The long-term objective of the NTRG is to improve treatment and outcomes for people who sustain traumatic brain injury (TBI), through research, education, and the development and dissemination of evidence-based guidelines. Through multiple funding sources, the NTRG conducts brain trauma research and educational programs in the United States and Latin America. With the International Collaborative Trauma and Injury Research Training program (ICTIRT), the NTRG proposes to use the research and educational resources of OHSU and University of Washington to train Latin American investigators in brain trauma research, and to establish a curriculum of trauma research at University of Rosario in Argentina. The program will involve three components: 1. Long-term training. Post-doctoral candidates will complete the Master of Clinical Research program (MCR) at OHSU, with core curriculum designed to produce independent clinical researchers, and electives focused on trauma and injury. 2. Mentored research. Concurrent with participating in the MCR, the post-doctoral candidates will take part in active neurotrauma research at Harborview Hospital, a Level I trauma center, and in the Departments of Neurological Surgery and Rehabilitation Medicine at University of Washington. 3. Short course curriculum. Seven short course modules, designed to educate undergraduate and graduate students, public health and research administrators, and allied health professionals in the technology of trauma research, will be taught by faculty from OHSU at University of Rosario. Students who successfully complete all seven modules will participate in a mentored practicum experience and receive a Certificate in Trauma Research. Through this program we will train the future leaders in brain trauma research in Argentina. We will establish sustainable capacity for ongoing trauma research at University of Rosario, and create a prototype for similar programs throughout Latin America.

Grant: 5D43TW007296-02
Program Director: PRIMACK, ARON
Principal Investigator: DISCHINGER, PATRICIA C PHD
Title: Injury Prevention Research Training in Egypt
Institution: UNIVERSITY OF MARYLAND BALT PROF BALTIMORE, MD
SCHOOL
Project Period: 2005/06/01-2010/02/28

As a continuation of our previous work in injury prevention research at the Charles McC Mathias, Jr. National Study Center for Trauma and Emergency Medical Services and in trauma resuscitation at R Adams Cowley Shock Trauma Center, along with our 25-year history of successful collaborative, transdisciplinary projects in Egypt with the Division of International Health in the Department of Epidemiology and Preventive Medicine, our goals for this work will fall into four areas. First, we will teach basic and advanced epidemiological skills to epidemiologists and other public health professionals to strengthen sustainable human trauma and injury research within Egypt; second, we will develop and expand in-country capacity and expertise for prehospital and emergency preparedness; third, we will train a cadre of traumatologists and emergency physicians in the use of the most sophisticated, currently available methodologies in trauma resuscitation, resuscitation research and how to gather data about resuscitation; and fourth, we will collaborate with hematologists in the continuing development of blood banking and transfusion medicine. The combination of our ongoing efforts and teaching experience will allow us to help the Egyptian Ministry of Health and Population and other Egyptian health professionals increase their knowledge and understanding of human trauma and injury prevention and apply this knowledge in public health practice to decrease the significant morbidity and mortality caused by injuries. Our specific aims are: 1) to develop in-country educational programs to teach sustainable injury prevention skills that build capacity to research human trauma and injury prevention, 2) to create the Program for International Emergency Research Center in Egypt, whose mission will be to study the causes, dynamics, treatments, and outcomes of traumatic injury and to apply this knowledge to decrease the burden of injuries, and 3) to provide mentored training opportunities for Egyptian Health Professionals. Considering the depth of expertise available at the University of Maryland, we have an ideal environment to collaborate on these educational efforts. The combination of University of Maryland, Baltimore's internationally recognized injury prevention research and trauma resuscitation practices in conjunction with our close working relationship with Egyptian health professionals provides an outstanding framework for the development of an injury prevention and response training program. The proposed collaboration will provide the setting for training to conduct high quality research on trauma, injury, and blood banking, research that is essential if Egypt is to develop the expertise to reduce the devastating impact caused by thousands of annual traumatic injuries and deaths.

Grant:	5D43TW007292-02	
Program Director:	PRIMACK, ARON	
Principal Investigator:	MACKENZIE, ELLEN J	PHD BIostatistics:BIostatistic S-UNSPEC
Title:	International Collaborative Trauma and Injury Research *	
Institution:	JOHNS HOPKINS UNIVERSITY	BALTIMORE, MD
Project Period:	2005/05/01-2010/02/28	

Injuries are one of the leading causes of global death and disability, especially in developing countries. The development of a sustainable research capacity within developing countries that will foster high quality and locally relevant research is a critical element of an optimal response to this high burden. The Johns Hopkins University (JHU) is pleased to collaborate with the Aga Khan University (AKU) in the development of an International Collaborative Trauma and Injury Research Training Program (ICTIRT) that will develop this capacity for AKU and the country of Pakistan. The long range vision of the ICTIRT we are proposing is to establish an Institute for Injury and Trauma Research and Training at AKU that can serve not only Pakistan but other parts of South Asia as well. This proposal has five specific aims: 1) to develop a strategic plan for establishing an Institute for Injury and Trauma Research and Training at AKU; 2) to train a small nucleus of experts in injury and trauma research; 3) to train a critical mass of scientists, health professionals and academics in the principles of injury prevention and control; 4) to raise awareness among health and other professionals in Pakistan about the importance of injury and trauma research; and 5) to foster collaboration among injury and trauma researchers within Pakistan and establish linkages with the international injury research community. The JHU-AKU ICTIRT we propose here consists of both long and short-term training options. Long-term training will be offered to at least six individuals over the course of the 5-year project period leading to a Master of Public Health degree from JHU and the completion of a publishable research study. Short-term training options - which will take place in Pakistan - include: (i) introductory workshops in the principles of injury prevention and control; (ii) advanced workshops to provide in depth, targeted injury research training; (iii) on-line courses in topics relevant to the study of injury and trauma research; (iv) an annual research symposium and (v) a series of bi-monthly seminars organized by AKU. Underlying the proposed training program is an existing and strong collaboration between the JHU and AKU. The collaboration brings together strengths in public health, injury prevention and EMS/trauma services and outcomes research at JHU with the need for training and capacity development at AKU to develop an inter-disciplinary training program in the field of injury and trauma research.

Grant: 5D43TW007267-02
Program Director: PRIMACK, ARON
Principal Investigator: MOCK, CHARLES N. PHD
Title: Strengthening Injury Control Research in Ghana
Institution: UNIVERSITY OF WASHINGTON SEATTLE, WA
Project Period: 2005/05/01-2010/02/28

The parent grant for this proposal is the CDC core grant for the Harborview Injury Prevention and Research Center at the University of Washington (UW). The broad goal of this proposal is to develop a model program to strengthen training and research capacity for injury control in Ghana. The program will educate a cadre of outstanding scientists in cutting edge research methods and training techniques. This will facilitate the development of successful and sustainable research and training activities across the spectrum of injury control, including surveillance, prevention, and treatment. The specific aims are: 1. Provide training in the form of 3 short courses in-country and short, intermediate, and long-term degree training at UW for 12 highly-qualified Ghanaian scientists and professionals on methods for high-quality injury research and implementation of effective injury control programs. 2. Support the development of rigorous research on high priority injury problems, the findings of which will be instrumental in strengthening the policies and practice of injury control in Ghana. 3. Assist Ghanaian scientists and professionals to become capable, productive, and respected participants in international injury research and to develop research structures and training programs to further the goals of reducing injury morbidity and mortality in Ghana and elsewhere in Africa. All training will address ethics and responsible conduct of research. Training and research activities will develop capabilities across the spectrum of injury control: surveillance, prevention, and treatment, including prehospital and hospital care. The rationale for this broad approach is that injury control activities are interrelated and most effective when an integrated, inter-disciplinary approach is applied. Most low and middle-income countries, including Ghana, need strengthening of their expertise across this spectrum. Improvements in various categories will be synergistic. This program will build upon a decade long collaboration on injury research between the Kwame Nkrumah University of Science and Technology in Kumasi, Ghana and UW. This collaboration has generated many scientific publications which have influenced policy in Ghana and which have been at the forefront of injury control in Africa.

Grant:	5D43TW007261-02	
Program Director:	PRIMACK, ARON	
Principal Investigator:	PEEK-ASA, CORINNE	PHD
Title:	ICTIRT	
Institution:	UNIVERSITY OF IOWA	IOWA CITY, IA
Project Period:	2005/05/26-2010/02/28	

This project will establish an International Collaborative Trauma and Injury Research Training (ICTIRT) program between the University of Iowa (UI) and the Stampar School of Public Health in Zagreb, Croatia that will build the capacity of investigators to conduct human trauma and injury research relevant to the health needs of Croatia and surrounding countries in the Central/Eastern European region. Croatia has higher injury mortality rates than most European countries, and has unique risk factors related to war and landmine injuries. Our aims are to: 1) train scientists to conduct injury prevention research, 2) develop and strengthen the Stampar School of Public Health as a center of excellence in injury control research, 3) facilitate the transition of trainees to positions of responsibility and influence in the region, and 4) develop infrastructure to translate injury research into public health practise. This effort builds on three areas of strength: 1) UI has maintained an active Fogerty training program in Occupational Health in Eastern Europe since 1995; 2) UI has a leading CDC-funded Injury Prevention and Control Research Center, established in 1990, and 3) advances in the use of cutting edge teaching technology, such as real-time audio and visual with the use of Polycom, will be used to maximize communication and use resources efficiently. Training will be focused on mid-career professionals who will have opportunities for long-term, short-term, and degree-focused training. Long-term trainees will begin the program with 6 months of distance education and communication with an established mentor, followed by five months of training in the US. Training in the US will include a curriculum of injury prevention courses, ethical conduct of research, and tailored electives. While in the US, trainees will work with a mentor to get research experience and develop a research plan and proposal. Upon returning to the country, trainees will undertake a planned research activity and conduct a distance-learning symposium to share their findings. Trainees will also be eligible for return US short-term training and degree programs.

Grant: 5D43TW007262-02
Program Director: PRIMACK, ARON
Principal Investigator: WRIGHT, DAVID W MD
Title: International Training in Injury Control Research
Institution: EMORY UNIVERSITY ATLANTA, GA
Project Period: 2005/05/01-2010/02/28

This application seeks to establish a training program in trauma care and injury control research in the Republic of Mozambique. It is built on a preexisting partnership between a US University (Emory University) and a Mozambican University (University Eduardo Mondlane or UEM). Mozambique is a southern African nation with a significant healthcare burden related to injury, and with minimal current clinical or research infrastructure to strengthen the care of injured patients. Three stages of training are described in this application: formal academic training, bridge fellowships in the U.S., and subsequent in-country research. The formal academic training is based on the core MPH curriculum currently taught at UEM, supplemented with focused courses in Trauma Care, Violence and Injury Prevention, and a distance education course in Epidemiology. In addition, the University of South Africa (UNISA), Institute for Social and Health Sciences, has agreed to serve as a regional resource for trainees, offering additional focused injury coursework on an elective basis. The Bridge Fellowships at Emory will function as "mini-sabbaticals" to nurture research protocols and provide training in the ethical, legal and social implications of research. Finally, trainees will return to Mozambique to undertake in-country research supported by small startup grants to help trainees launch their first project with ongoing mentorship. Close follow-up and collaboration will be provided during all three phases, and on an ongoing basis. While some trainees will undertake all 3 phases of the training, others may require only select phases (perhaps spending more time at UNISA in supplemental courses, or spending more time on in-country research). Evidence of strong in-country support is presented. This plan has several advantages: it is highly cost-effective, it relies on the strengths of two WHO collaborating centres for injury control (Emory and UNISA), it uses a regional or "south to south" training approach, in-country supplemental training will reach others beyond our core trainees, it signals Emory's intent to Mozambique to be a long-term partner in building the nation's capacity to conduct high quality research in trauma care and injury control, and it lays the foundation for a regional collaborative that could ultimately lead to expansion of this trauma and injury control research beyond Mozambique to include other nations in Southern and East Africa.

Grant: 5D43TW007278-02
Program Director: PRIMACK, ARON
Principal Investigator: WYATT, GAIL E PHD CLINICAL PSYC:CLINICAL
PSYCHOLOGY-UNSPEC
Title: UCLA-South African Research in Trauma Training Program
Institution: UNIVERSITY OF CALIFORNIA LOS ANGELES LOS ANGELES, CA
Project Period: 2005/05/25-2010/02/28

The UCLA/South African Trauma Research Training (Phodiso) Program seeks five years of funding to prepare future investigators to conduct research in trauma and injury prevention as a result of personal, interpersonal and community level violence and intentional injuries. The focus of their research will be to minimize health and mental health effects, specifically depression and post traumatic stress disorder (PTSD) in South Africa. The Phodiso program is an international collaboration between UCLA and the University of the North. The UCLA team will also collaborate with Columbia University and the University of Michigan. In South Africa, the University of the North will collaborate with universities, research organizations, traditional healers, and others. The Phodiso training program is based on a Cooperative Agreement supported by the National Institute of Mental Health (2001-2006), a randomized clinical trial testing a culturally congruent intervention for HTV serodiscordant African American couples. Ecological theory (Bronfenbrenner, 1979), and Social Learning Theory (Bandura, 1977) will provide the conceptual foundation for training. We propose to develop a multidisciplinary training program for research in trauma, injury and the effects on health and mental health. Eight Fellows, two per year, will be trained to conduct research that addresses the biological, social and psychological factors related to trauma, injury, and the effects on health and mental health. A countrywide application process will be implemented to select Post-Doctoral and early career research candidates by the UCLA and South African Core Faculty. Fellows, will receive research mentoring, long-term (3 month) U.S. study and short-term trauma workshops in South Africa. They will also conduct their own research projects in South Africa as a basis for future studies in this field. They receive a Post-Doctoral certificate in trauma and injury prevention research. The training program and the research of the Phodiso Fellows will be evaluated. Fellows will be tracked over the course of the grant to document their ability to publish and to obtain funding for other research. The sustainability of the training program and integration into academic, private and government supported agencies will be assessed. Fellows will be asked to present their research to newly enrolled Fellows and other health professionals. The Phodiso program will also be presented to South African government officials so that the successful on-going training of researchers can be implemented in universities and research centers across the country.